

MITYANA DISTRICT PRIMARY SCHOOLS  
HEAD TEACHERS ASSOCIATION  
PRIMARY LEAVING MOCK EXAMINATIONS 2024  
MATHEMATICS

Time Allowed: 2 Hours 30 Minutes

Random No.	Personal No.

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

School: \_\_\_\_\_

READ THE FOLLOWING INSTRUCTIONS  
CAREFULLY:

1. This paper has two sections: A and B.
2. Section A has 20 questions (40 Marks).
3. Section B has 12 questions (60 Marks).
4. Attempt all questions in both sections. All answers to both sections A and B must be written in the spaces provided.
5. All answers must be written in blue or black ball point pens or *ink*. Only diagrams and graph work must be done in *pencil*.
6. Unnecessary *alteration* of work will lead to loss of marks.
7. Any *handwriting* that cannot be easily read may lead to loss of marks.
8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

Qn No.	MARKS	INITIALS
1 - 5		
6 - 10		
11 - 15		
16 - 20		
21 - 22		
23 - 24		
25 - 26		
27 - 28		
29 - 30		
31 - 32		
Total		

Please turn over

**SECTION A: 40 MARKS**

Attempt all questions in this section.

Questions 1 to 20 carry two marks each.

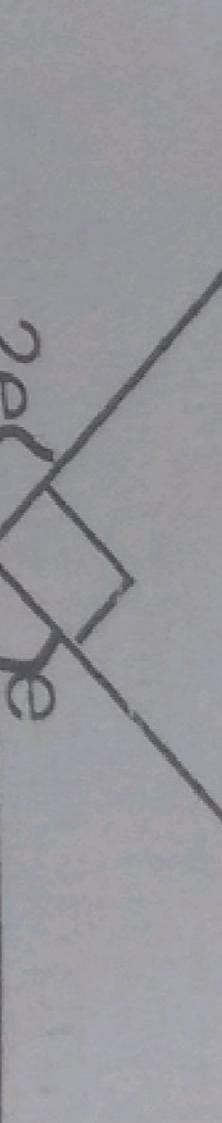
1 Work out:  $9 \overline{)6}$

$$\begin{array}{r} -4 \\ \hline 3 \end{array}$$

3 If  $q = -4$ ,  $u = 2$ , find the value of

3qu.

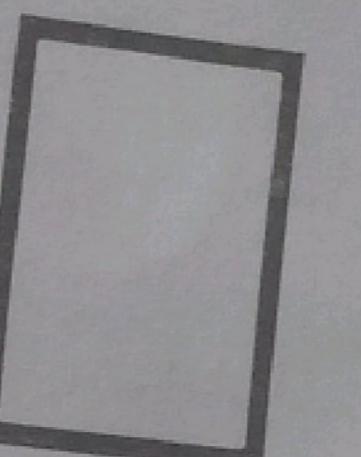
4 Find the value of  $e$  in degrees.



5 Convert 250gm to kilograms.

6 The probability of electing a boy as a class monitor is  $\frac{3}{7}$ .

If there are 32 girls, how many pupils are in the class?



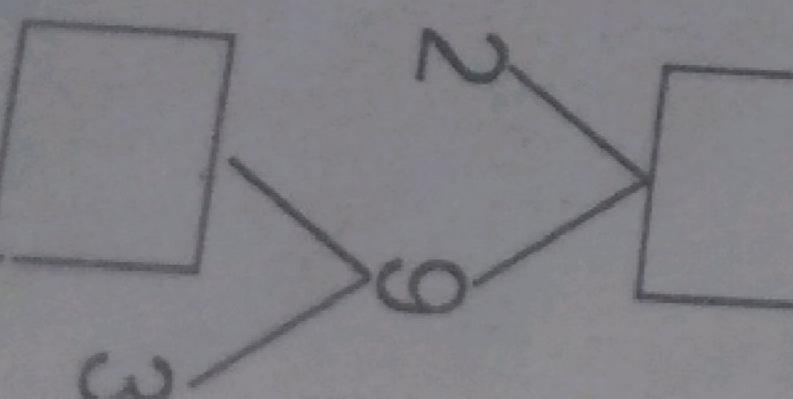
7

What percentage of the figure below is unshaded?



8

Use the factor tree to fill in the missing values.



9

Express 00 45 hours to 12 hour clock time.

10

Use a dial to work out:  
 $2 - 3 = y \pmod{5}$

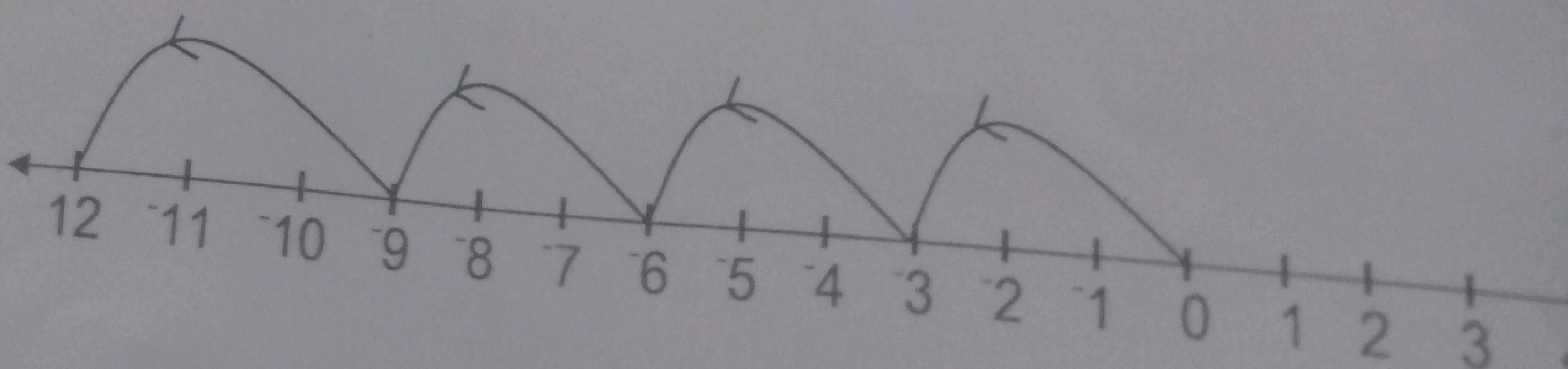
11 If set  $G = \{u, w, q\}$ . List all the subsets of set  $G$ .

12 Babirye bought  $\frac{21}{2}$  litres of cooking oil at sh. 3,000 for every half litre. How much did she pay?

13 Using a ruler, a pencil and a protractor, draw an angle of  $105^\circ$ .

14 The mean of 4, 5, 6 and  $y$  is 6. Find the value of  $y$ .

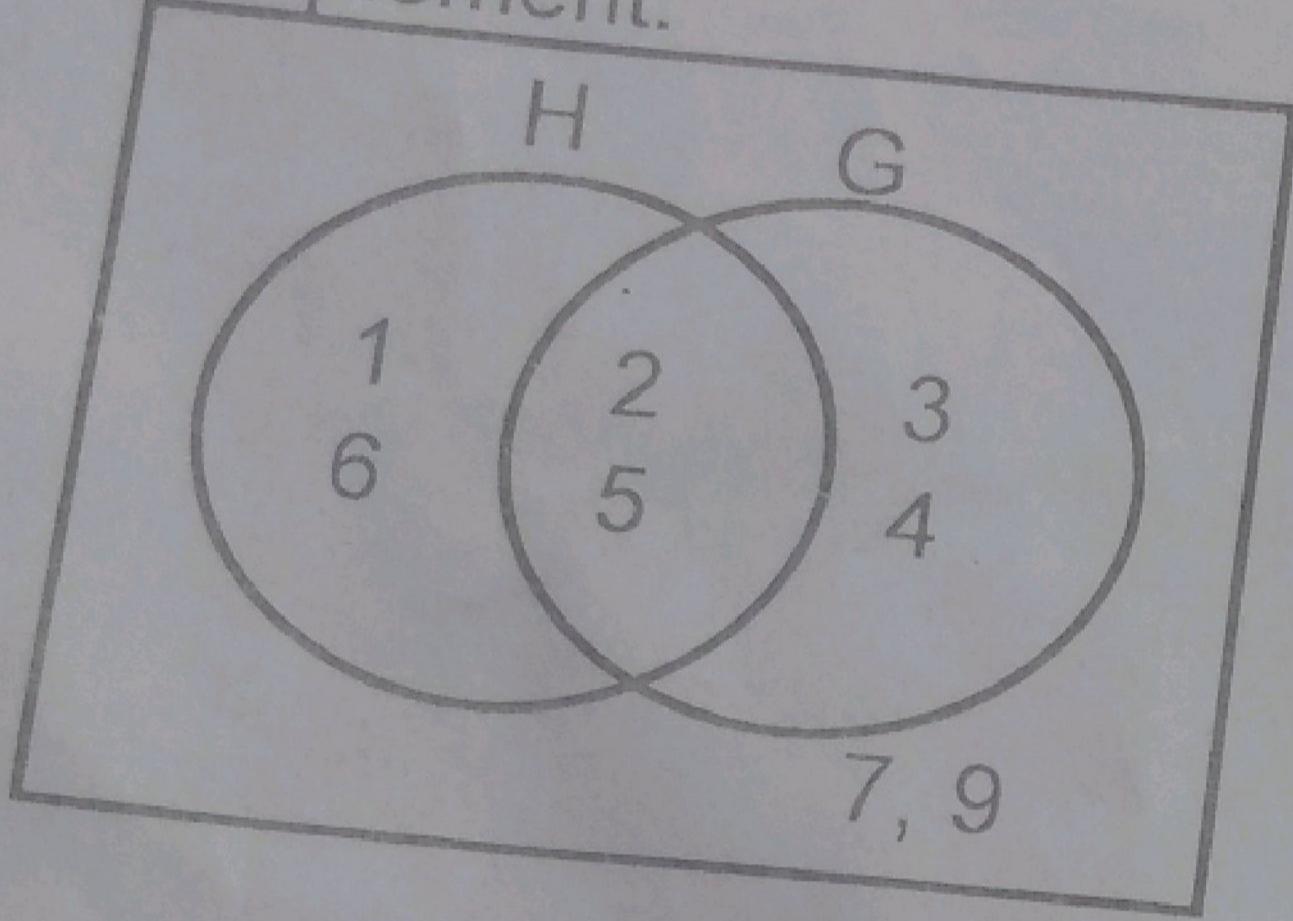
15 Write the mathematical multiplicative sentence for the number line drawn below.



16 Express 78.32 in standard form.

17 Solve for w:  $3(w + 2) = 12$

18 In the venn diagram below, find the number of elements of set G complement.

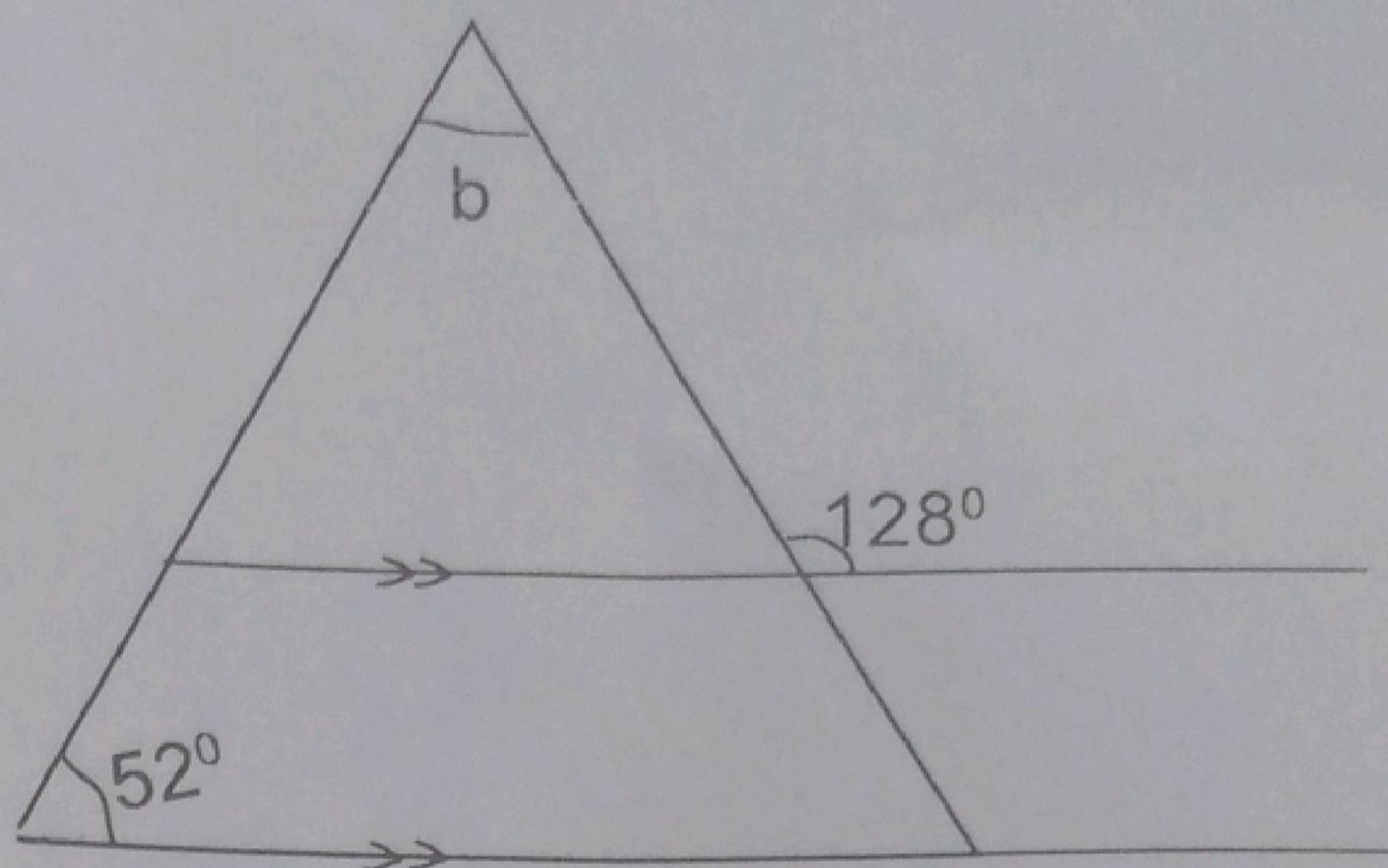


19 A bicycle wheel has a radius of 14dm. What distance can it cover in one revolution?

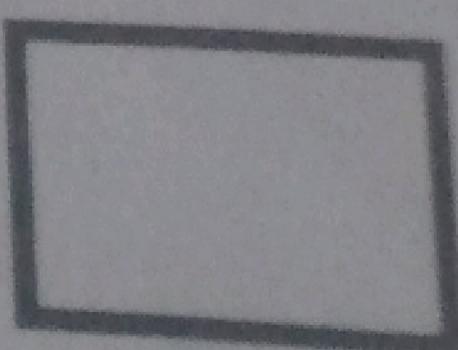
20

It takes **ninety minutes** for a tractor to travel a **distance** of 120km. Find its speed.

- 29a) The exterior angle of a regular octagon is  $(3x + 18)$ . Find the value of  $x$  in degrees. (03 marks)
- (b) Using the figure below, find the angle marked **b** in degrees. (02 marks)



- 30 Asiimwe's family received  $\frac{1}{2}$  of the face masks on Friday,  $\frac{1}{4}$  of the remainder on Saturday and the remaining 15 face masks on Sunday.
- (a) Find the fraction of the face masks the family received on Sunday. (03 marks)
- (b) Find the total number of face masks the family received. (02 marks)



- 25 The three alarm clocks sound at intervals of 9 minutes, 12 minutes and 15 minutes respectively. When will they sound at the same time if they first sounded together at 9:30a.m? (04 marks)

26 Ssebunnya went to the market and bought the following items:

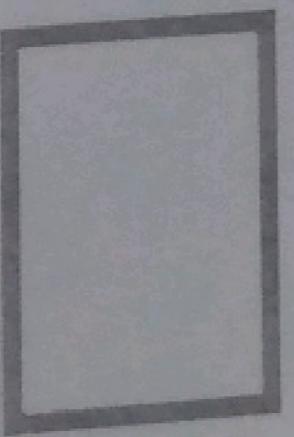
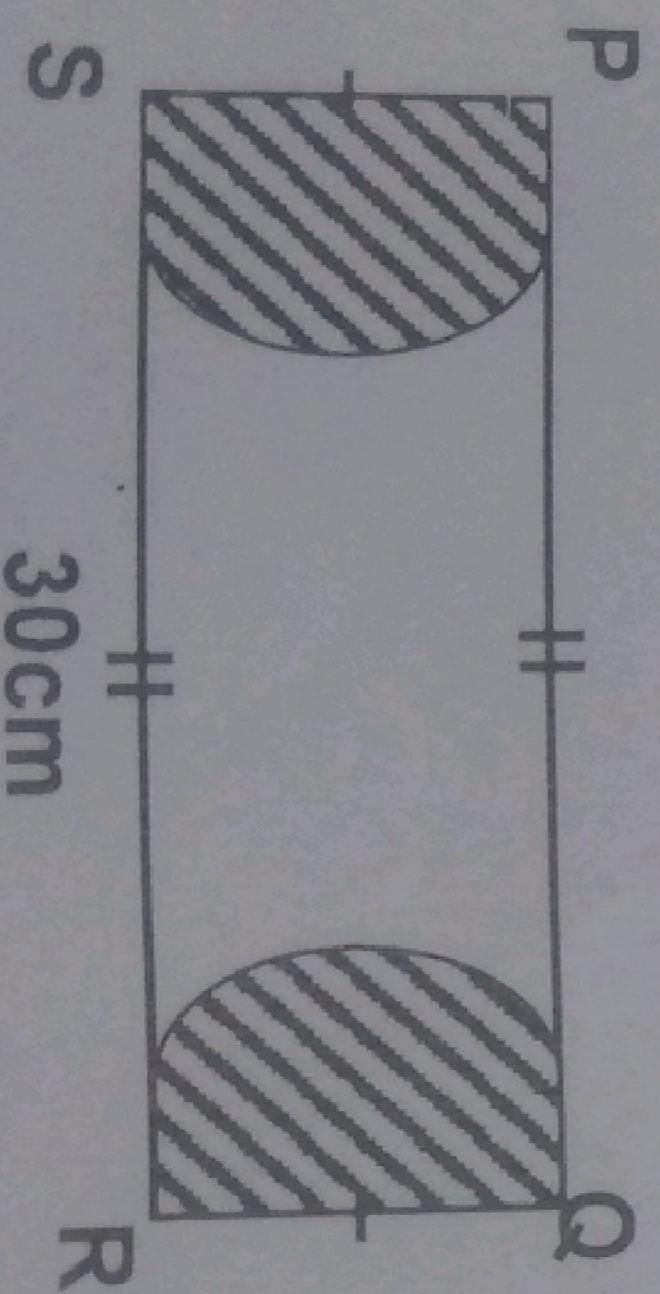
- 3 heaps of oranges at sh 2,000 per heap.  
12 mangoes at sh. 1,200 for every 3 mangoes.

400gm of rice at sh. 4,000 per kg.

2 trays of eggs at sh. 18,000.

- (a) Find his total expenditure. (04 marks) (b) If he was given a discount of sh. 1400, how much did he pay? (02 marks)

- 27 The figure below shows a rectangle with two semi-circles inside it. Study the figure and answer the questions that follow.



- 1 23. There were three friends namely: Ddemba, Ddumba and Ddembe in Busunju Sub - county who decided to start a business and managed to raise sh. 6,600,000. After an agreement, Ddumba managed to raise thrice of as the money raised by Ddamba while Ddembe managed to raise half as much as the money raised by Ddumba.

(a) How much did Ddumba contribute? (03 marks)

1 (b) Find Ddembe's contribution. (02 marks)

24 Kato took **3 hours** for the whole journey. For the first **half an hour**, his average speed was **100km/h** and for the remaining time, his average speed was **52km/h**.

- (a) Calculate the total distance he covered. (04 marks)
- (b) Work out his **average speed** for the **whole** journey. (02 marks)

**SECTION B: 60 MARKS**

Attempt all questions in this section.

Marks for each part of the question are indicated in the brackets

21a) Work out:

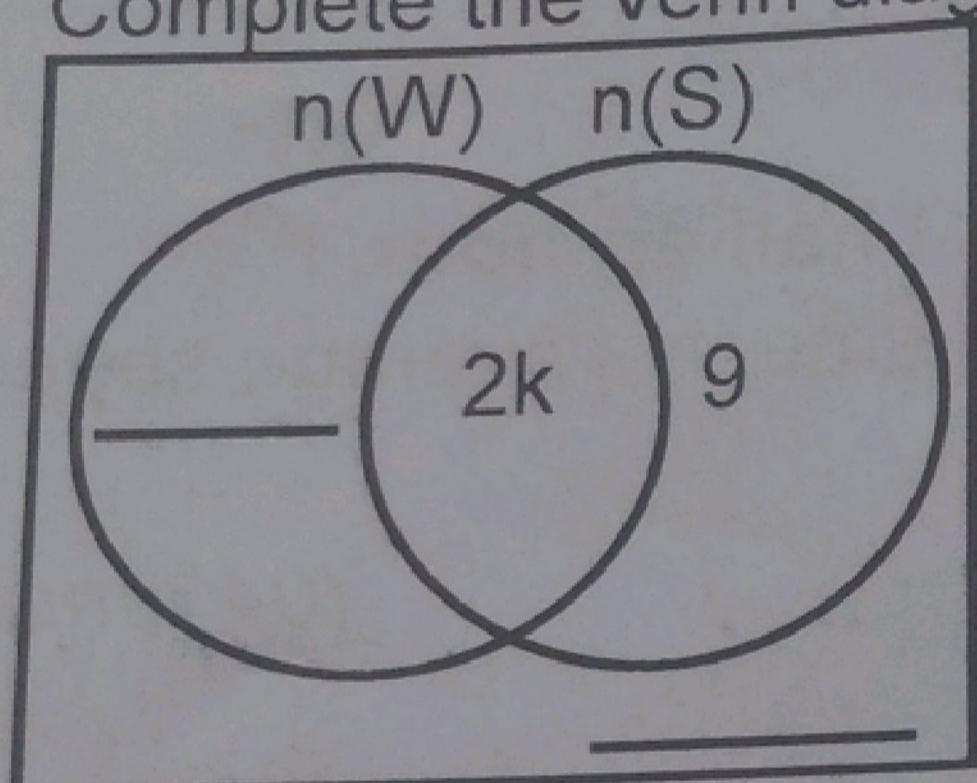
$$\begin{array}{r} 3 \ 3 \ 4 \\ + 1 \ 2 \ 3 \\ \hline \end{array}$$

(b) If  $2w_{\text{four}} = 1011_{\text{two}}$ .  
Find the value of  $w$ . (03 marks)

(02 marks)

- 22 At a birthday party, 7 people took water (W) only, some took soda (S),  $2k$  took both drinks and  $k+3$  took other drinks. (02 marks)

(a) Complete the venn diagram below.



- (b) If 29 people took soda, find the value of  $k$ . (02 marks)